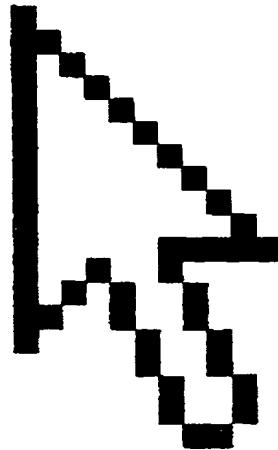


Microsoft

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**Computer
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Fifth Edition



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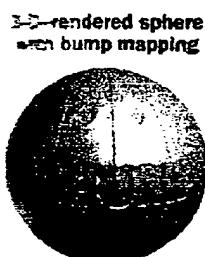
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**3-D rendered sphere
with bump mapping**

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- Programs sold with a computer will be software package.
- Larger programs to increase effectiveness.

Write electronically into a programmable ROM chip by using a special device simultaneously as a PROM programmer or PROM blaster. Also called:

- EPROM. 2. To create read-only memory. 3. To write data electronically into a PC Card Type III.
- EEPROM. flash memory media that can be repeatedly written with new information.

... a new system or device running
... weak elements or components
... be found and corrected before the
... integral part of the user's work routine.
... formed at the factory before a

Burn-in: make a permanent change in the image inside of a monitor screen by leaving a bright, unchanging image on the screen for extended periods. Such an image will remain on the screen even after the monitor is turned off. Burning in is a common problem with older PC monitors; it is no longer a concern with modern LCD and plasma monitors. Also called: ghosting.

a block of data all at one time with microprocessors and certain buses support various types of burst transfers. definition 1).

burst² *v.b.* To break fanfold continuous-feed paper apart at its perforations, resulting in a stack of separate sheets.

burster *n.* A device used to burst, or break apart at the perforations, fanfold continuous-feed paper.

burst extended-data-out RAM *n.* See BEDO DRAM.

burst mode *n.* A method of data transfer in which information is collected and sent as a unit in one high-speed transmission. In burst mode, an input/output device takes control of a multiplexer channel for the time required to send its data. In effect, the multiplexer, which normally merges input from several sources into a single high-speed data stream, becomes a channel dedicated to the needs of one device until the entire transmission has been sent. Burst mode is used both in communications and between devices in a computer system. See also burst¹.

burst rate *n.* See *burst speed* (definition 1).

burst speed *n.* 1. The fastest speed at which a device can operate without interruption. For example, various communications devices (as on networks) can send data in bursts, and the speed of such equipment is sometimes measured as the burst speed (the speed of data transfer while the burst is being executed). *Also called:* burst rate. 2. The number of characters per second that a printer can print on one line without a carriage return or linefeed. Burst speed measures the actual speed of printing, without consideration of the time taken to advance paper or to move the print head back to the left margin. Almost always, the speed claimed by the manufacturer is the burst speed. By contrast, throughput is the number of characters per second when one or more entire pages of text are being printed and is a more practical measurement of printer speed in real-life situations.

bursty *adj.* Transmitting data in spurts, or bursts, rather than in a continuous stream.

bus n. A set of hardware lines (conductors) used for data transfer among the components of a computer system. A bus is essentially a shared highway that connects different parts of the system—including the processor, disk-drive controller, memory, and input/output ports—and enables them to transfer information. The bus consists of specialized groups of lines that carry different types of information. One group of lines carries data; another carries memory addresses (locations) where data items are to be found; yet another carries control signals. Buses are characterized by the number of bits they can transfer at a single

bus enumerator**B**

time, equivalent to the number of wires within the bus. A computer with a 32-bit address bus and a 16-bit data bus, for example, can transfer 16 bits of data at a time from any of 2^{32} memory locations. Most PCs contain one or more expansion slots into which additional boards can be plugged to connect them to the bus.

bus enumerator *n.* A device driver that identifies devices located on a specific bus and assigns a unique identification code to each device. The bus enumerator is responsible for loading information about the devices onto the hardware tree. *See also bus, device driver, hardware tree.*

bus extender *n.* 1. A device that expands the capacity of a bus. For example, IBM PC/AT computers used a bus extender to add onto the earlier PC bus and allow the use of 16-bit expansion boards in addition to 8-bit boards. *See also bus.* 2. A special board used by engineers to raise an add-on board above the computer's cabinet, making it easier to work on the circuit board.

business graphics *n.* *See presentation graphics.*

business information system *n.* A combination of computers, printers, communications equipment, and other devices designed to handle data. A completely automated business information system receives, processes, and stores data; transfers information as needed; and produces reports or printouts on demand. *Acronym: BIS. See also management information system.*

business logic *n.* A set of rules and calculations built into a business information application. The application uses business logic to sort incoming information and respond accordingly. Business logic functions as a set of guidelines that ensure the application's actions conform to the specific needs of a business.

business software *n.* Any computer application designed primarily for use in business, as opposed to scientific use or entertainment. In addition to the well-known areas of word processing, spreadsheets, databases, and communications, business software for microcomputers also encompasses such applications as accounting, payroll, financial planning, project management, decision and support systems, personnel record maintenance, and office management.

bus network

Business Software Alliance *n.* International organization of computer software companies that promotes the interests of the software industry. This alliance focuses on educating the public on the importance of software, advancing free and open world trade, and supporting legislation opposing software piracy and Internet theft. The Business Software Alliance has offices in the United States, Europe, and Asia, with members in more than 70 nations around the world. *Acronym: BSA.*

business-to-business *n. See B2B.*

business-to-consumer *n. See B2C.*

bus mastering *n.* In modern bus architectures, the ability of a device controller card—a network adapter or a disk controller, for example—to bypass the CPU and work directly with other devices to transfer data into and out of memory. Enabling devices to take temporary control of the system bus for data transfer and bus mastering frees the CPU for other work. This in turn improves performance in tasks, such as video replay and multiple-user queries to large databases, that require simultaneous access and intensive processing. The technology known as direct memory access (DMA) is a well-known example of bus mastering. *See also bus, controller, direct memory access. Compare PIO.*

bus mouse *n.* A mouse that attaches to the computer's bus through a special card or port rather than through a serial port. *See also mouse. Compare serial mouse.*

bus network *n.* A topology (configuration) for a LAN (local area network) in which all nodes are connected to a single main communications line (bus). On a bus network, each node monitors activity on the line. Messages are detected by all nodes but are accepted only by the node(s) to whom they are addressed. A malfunctioning node ceases to communicate but does not disrupt operation (as it might on a ring network, in which messages are passed from one node to the next). To avoid collisions that occur when two or more nodes try to use the line at the same time, bus networks commonly rely on collision detection or token passing to regulate traffic. *See the illustration. Also called bus topology, linear bus. See also collision detection, connection, CSMA/CD, token bus network, token passing. Compare ring network, star network.*